

Release notes for ENDF/B Development n-020_Ca_040
evaluation

ENDF
B-VII.dev

April 26, 2017

- **psyche** Errors:

1. PSYCHE attempted to compute average Eg, found something unusual
FILE 6 / SECTION 801 / GAMMA ERROR E= 1.0000E-05 EBAR= 1.4098E+06 QI= 3.3851E+05 (0): Iffy ave. Eg

```
FILE 6
SECTION 801
GAMMA ERROR E= 1.0000E-05 EBAR= 1.4098E+06 QI= 3.3851E+05
```

2. PSYCHE attempted to compute average Eg, found something unusual
FILE 6 / SECTION 801 / GAMMA ERROR E= 2.0000E+08 EBAR= 1.4098E+06 QI= 3.3851E+05 (0): Iffy ave. Eg

```
FILE 6
SECTION 801
GAMMA ERROR E= 2.0000E+08 EBAR= 1.4098E+06 QI= 3.3851E+05
```

3. PSYCHE attempted to compute average Eg, found something unusual
FILE 6 / SECTION 802 / GAMMA ERROR E= 1.0000E-05 EBAR= 1.6113E+06 QI= 1.3706E+05 (0): Iffy ave. Eg

```
FILE 6
SECTION 802
GAMMA ERROR E= 1.0000E-05 EBAR= 1.6113E+06 QI= 1.3706E+05
```

4. PSYCHE attempted to compute average Eg, found something unusual
FILE 6 / SECTION 802 / GAMMA ERROR E= 2.0000E+08 EBAR= 1.6113E+06 QI= 1.3706E+05 (0): Iffy ave. Eg

```
FILE 6
SECTION 802
GAMMA ERROR E= 2.0000E+08 EBAR= 1.6113E+06 QI= 1.3706E+05
```

5. PSYCHE attempted to compute average Eg, found something unusual
FILE 6 / SECTION 803 / GAMMA ERROR E= 4.8060E+05 EBAR= 2.2171E+06 QI=-4.6877E+05 (0): Iffy ave. Eg

```
FILE 6
SECTION 803
GAMMA ERROR E= 4.8060E+05 EBAR= 2.2171E+06 QI=-4.6877E+05
```

6. PSYCHE attempted to compute average Eg, found something unusual
FILE 6 / SECTION 803 / GAMMA ERROR E= 2.0000E+08 EBAR= 2.2171E+06 QI=-4.6877E+05 (0): Iffy ave. Eg

```
FILE 6
SECTION 803
GAMMA ERROR E= 2.0000E+08 EBAR= 2.2171E+06 QI=-4.6877E+05
```

- **fudge-4.0** Warnings:

1. A covariance format not yet supported by fudge (LRF=7 covariances)
Reading ENDF file: ../n-020_Ca_040.endf (Error # 0): Cov. unimp. (e)

WARNING: skipping LRF=7 resonance covariances!

2. FIXME: Another genuine fudge bug!
(Error # 2): *Fudge check bug*

FAILURE: ENDF EVALUATION CHECKING HALTED BECAUSE list index out of rangelist index out of range

3. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 3 (H1 + K40): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

- fudge-4.0 Errors:

1. Exception IndexError was thrown
FAILURE: ENDF EVALUATION CHECKING HALTED BECAUSE list index out of rangelist index out of range (Error # 1): IndexError

IndexError: list index out of range

- njoy2012 Warnings:

1. Generic warning message
reconr...reconstruct pointwise cross sections in pendf format (0): Warning

---message from betset---p=0 set to 1 at eres= 5.6990E+05

2. Generic warning message
reconr...reconstruct pointwise cross sections in pendf format (1): Warning

---message from betset---p=0 set to 1 at eres= 5.7693E+05

3. Evaluation has no unresolved resonance parameters given
unresr...calculation of unresolved resonance cross sections (0): No URR

---message from unresr---mat 2025 has no unresolved parameters
copy as is to nout

4. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (0): HEATR/hinit (4)

---message from hinit---mf6, mt102 has recoil with no spectrum
photon momentum recoil used.

5. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with "law=0"; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (1): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 12021

6. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with 'law=0'; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (2): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 12022

7. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with 'law=0'; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (3): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 12023

8. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with 'law=0'; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (4): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 12024

9. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with 'law=0'; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (5): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 12025

10. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with 'law=0'; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (6): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 12026

11. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with 'law=0'; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (7): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 12027

12. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with 'law=0'; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but

they are not adequate for computing heating and damage.
heatr...prompt kerma (8): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 12028

13. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with "law=0"; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (9): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 12029

14. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with "law=0"; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (10): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 12030

15. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with "law=0"; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (11): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 13023

16. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with "law=0"; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (12): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 13024

17. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with "law=0"; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (13): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 13025

18. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with "law=0"; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (14): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 13026

19. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with ‘‘law=0’’; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (15): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 13026

20. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with ‘‘law=0’’; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (16): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 13027

21. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with ‘‘law=0’’; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (17): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 13028

22. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with ‘‘law=0’’; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (18): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 13029

23. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with ‘‘law=0’’; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (19): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 13030

24. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with ‘‘law=0’’; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (20): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 13031

25. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with 'law=0'; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (21): HEATR/sixbar (0)
- message from sixbar---no distribution for mt 5 particle 13032
26. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with 'law=0'; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (22): HEATR/sixbar (0)
- message from sixbar---no distribution for mt 5 particle 13033
27. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with 'law=0'; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (23): HEATR/sixbar (0)
- message from sixbar---no distribution for mt 5 particle 14024
28. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with 'law=0'; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (24): HEATR/sixbar (0)
- message from sixbar---no distribution for mt 5 particle 14025
29. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with 'law=0'; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (25): HEATR/sixbar (0)
- message from sixbar---no distribution for mt 5 particle 14026
30. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with 'law=0'; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (26): HEATR/sixbar (0)
- message from sixbar---no distribution for mt 5 particle 14027
31. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with 'law=0'; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but

they are not adequate for computing heating and damage.
heatr...prompt kerma (27): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 14028

32. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with ‘‘law=0’’; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (28): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 14029

33. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with ‘‘law=0’’; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (29): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 14030

34. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with ‘‘law=0’’; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (30): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 14031

35. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with ‘‘law=0’’; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (31): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 14032

36. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with ‘‘law=0’’; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (32): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 14033

37. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with ‘‘law=0’’; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (33): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 14034

38. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with 'law=0'; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (34): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 15027

39. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with 'law=0'; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (35): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 15028

40. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with 'law=0'; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (36): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 15029

41. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with 'law=0'; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (37): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 15030

42. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with 'law=0'; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (38): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 15031

43. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with 'law=0'; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (39): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 15032

44. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with 'law=0'; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (40): HEATR/sixbar (0)
- message from sixbar---no distribution for mt 5 particle 15033
45. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with 'law=0'; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (41): HEATR/sixbar (0)
- message from sixbar---no distribution for mt 5 particle 15034
46. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with 'law=0'; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (42): HEATR/sixbar (0)
- message from sixbar---no distribution for mt 5 particle 15035
47. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with 'law=0'; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (43): HEATR/sixbar (0)
- message from sixbar---no distribution for mt 5 particle 15036
48. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with 'law=0'; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (44): HEATR/sixbar (0)
- message from sixbar---no distribution for mt 5 particle 16028
49. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with 'law=0'; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (45): HEATR/sixbar (0)
- message from sixbar---no distribution for mt 5 particle 16029
50. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with 'law=0'; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but

they are not adequate for computing heating and damage.
heatr...prompt kerma (46): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 16030

51. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with ‘‘law=0’’; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (47): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 16031

52. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with ‘‘law=0’’; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (48): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 16032

53. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with ‘‘law=0’’; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (49): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 16033

54. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with ‘‘law=0’’; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (50): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 16034

55. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with ‘‘law=0’’; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (51): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 16035

56. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with ‘‘law=0’’; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (52): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 16036

57. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with ‘‘law=0’’; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (53): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 16037

58. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with ‘‘law=0’’; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (54): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 17031

59. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with ‘‘law=0’’; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (55): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 17032

60. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with ‘‘law=0’’; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (56): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 17033

61. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with ‘‘law=0’’; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (57): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 17034

62. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with ‘‘law=0’’; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (58): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 17034

63. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with 'law=0'; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (59): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 17035

64. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with 'law=0'; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (60): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 17036

65. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with 'law=0'; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (61): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 17037

66. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with 'law=0'; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (62): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 17038

67. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with 'law=0'; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (63): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 18032

68. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with 'law=0'; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (64): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 18033

69. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with 'law=0'; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but

they are not adequate for computing heating and damage.
heatr...prompt kerma (65): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 18034

70. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with ‘‘law=0’’; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (66): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 18035

71. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with ‘‘law=0’’; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (67): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 18036

72. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with ‘‘law=0’’; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (68): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 18037

73. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with ‘‘law=0’’; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (69): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 18038

74. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with ‘‘law=0’’; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (70): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 18039

75. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with ‘‘law=0’’; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (71): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 19035

76. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with 'law=0'; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (72): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 19036

77. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with 'law=0'; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (73): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 19037

78. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with 'law=0'; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (74): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 19038

79. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with 'law=0'; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (75): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 19039

80. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with 'law=0'; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (76): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 19040

81. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with 'law=0'; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (77): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 20036

82. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with 'law=0'; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (78): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 20037

83. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with 'law=0'; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (79): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 20038

84. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with 'law=0'; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (80): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 20039

85. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with 'law=0'; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (81): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 20040

86. The ENDF-6 format allows the evaluator to describe a subsection of File 6 with 'law=0'; that is, no distribution is given. Such sections are fine for giving particle yields for gas production and similar applications, but they are not adequate for computing heating and damage.
heatr...prompt kerma (82): HEATR/sixbar (0)

---message from sixbar---no distribution for mt 5 particle 20041

87. Evaluation has no unresolved resonance parameters given
purr...probabalistic unresolved calculation (0): No URR

---message from purr---mat 2025 has no unresolved parameters
copy as is to nout

88. The evaluation was missing a file 12. This may be OK. Or not.
acer...monte carlo neutron and photon data (0): No MF12

message from gamsum---file 12 not found.

89. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (0): ACER/check energy distributions (0)
- check energy distributions
 consis: ep.gt.epmax 9.513683E-12 with q.lt.0 for (n,x) at e 1.000000E-11 -> 1.000000E-06
90. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (1): ACER/check energy distributions (0)
- check energy distributions
 consis: awr.lt.180---this is probably an error.
91. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (2): ACER/check energy distributions (0)
- check energy distributions
 consis: shifting eprimes greater than epmax and renorming the distribution
92. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (3): ACER/check energy distributions (0)
- check energy distributions
 consis: ep.gt.epmax 3.995746E+00 with q.lt.0 for (n,x) at e 4.200000E+00 -> 4.147884E+00
93. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (4): ACER/check energy distributions (0)
- check energy distributions
 consis: awr.lt.180---this is probably an error.
94. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (5): ACER/check energy distributions (0)
- check energy distributions
 consis: shifting eprimes greater than epmax and renorming the distribution
95. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (6): ACER/check energy distributions (0)
- check energy distributions
 consis: ep.gt.epmax 5.517936E+00 with q.lt.0 for (n,x) at e 5.800000E+00 -> 5.611843E+00
96. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (7): ACER/check energy distributions (0)
- check energy distributions
 consis: awr.lt.180---this is probably an error.
97. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (8): ACER/check energy distributions (0)
- check energy distributions
 consis: shifting eprimes greater than epmax and renorming the distribution
98. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (9): ACER/check energy distributions (0)

- check energy distributions
consis: ep.gt.epmax 5.898483E+00 with q.lt.0 for (n,x) at e 6.200000E+00 -> 6.099829E+00
99. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (10): ACER/check energy distributions (0)
- check energy distributions
consis: awr.lt.180---this is probably an error.
100. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (11): ACER/check energy distributions (0)
- check energy distributions
consis: shifting eprimes greater than epmax and renorming the distribution
101. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (12): ACER/check energy distributions (0)
- check energy distributions
consis: ep.gt.epmax 7.040125E+00 with q.lt.0 for (n,x) at e 7.400000E+00 -> 7.075802E+00
102. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (13): ACER/check energy distributions (0)
- check energy distributions
consis: awr.lt.180---this is probably an error.
103. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (14): ACER/check energy distributions (0)
- check energy distributions
consis: shifting eprimes greater than epmax and renorming the distribution
104. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (15): ACER/check energy distributions (0)
- check energy distributions
consis: ep.gt.epmax 7.420673E+00 with q.lt.0 for (n,x) at e 7.800000E+00 -> 7.563789E+00
105. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (16): ACER/check energy distributions (0)
- check energy distributions
consis: awr.lt.180---this is probably an error.
106. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (17): ACER/check energy distributions (0)
- check energy distributions
consis: shifting eprimes greater than epmax and renorming the distribution
107. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (18): ACER/check energy distributions (0)
- check energy distributions
consis: ep.gt.epmax 9.989367E+00 with q.lt.0 for (n,x) at e 1.050000E+01 -> 1.000372E+01

108. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (19): ACER/check energy distributions (0)
- check energy distributions
 consis: awr.lt.180---this is probably an error.
109. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (20): ACER/check energy distributions (0)
- check energy distributions
 consis: shifting eprimes greater than epmax and renorming the distribution
110. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (21): ACER/check energy distributions (0)
- check energy distributions
 consis: ep.gt.epmax 1.094073E+01 with q.lt.0 for (n,x) at e 1.150000E+01 -> 1.097969E+01
111. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (22): ACER/check energy distributions (0)
- check energy distributions
 consis: awr.lt.180---this is probably an error.
112. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (23): ACER/check energy distributions (0)
- check energy distributions
 consis: shifting eprimes greater than epmax and renorming the distribution
113. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (24): ACER/check energy distributions (0)
- check energy distributions
 consis: ep.gt.epmax 1.189210E+01 with q.lt.0 for (n,x) at e 1.250000E+01 -> 1.195567E+01
114. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (25): ACER/check energy distributions (0)
- check energy distributions
 consis: awr.lt.180---this is probably an error.
115. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (26): ACER/check energy distributions (0)
- check energy distributions
 consis: shifting eprimes greater than epmax and renorming the distribution
116. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (27): ACER/check energy distributions (0)
- check energy distributions
 consis: ep.gt.epmax 1.284346E+01 with q.lt.0 for (n,x) at e 1.350000E+01 -> 1.293164E+01
117. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (28): ACER/check energy distributions (0)

- check energy distributions
consis: awr.lt.180---this is probably an error.
118. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (29): ACER/check energy distributions (0)
- check energy distributions
consis: shifting eprimes greater than epmax and renorming the distribution
119. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (30): ACER/check energy distributions (0)
- check energy distributions
consis: ep.gt.epmax 1.379483E+01 with q.lt.0 for (n,x) at e 1.450000E+01 -> 1.390761E+01
120. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (31): ACER/check energy distributions (0)
- check energy distributions
consis: awr.lt.180---this is probably an error.
121. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (32): ACER/check energy distributions (0)
- check energy distributions
consis: shifting eprimes greater than epmax and renorming the distribution
122. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (33): ACER/check energy distributions (0)
- check energy distributions
consis: ep.gt.epmax 1.522188E+01 with q.lt.0 for (n,x) at e 1.600000E+01 -> 1.537157E+01
123. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (34): ACER/check energy distributions (0)
- check energy distributions
consis: awr.lt.180---this is probably an error.
124. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (35): ACER/check energy distributions (0)
- check energy distributions
consis: shifting eprimes greater than epmax and renorming the distribution
125. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (36): ACER/check energy distributions (0)
- check energy distributions
consis: ep.gt.epmax 1.712462E+01 with q.lt.0 for (n,x) at e 1.800000E+01 -> 1.732351E+01
126. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (37): ACER/check energy distributions (0)
- check energy distributions
consis: awr.lt.180---this is probably an error.

127. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (38): ACER/check energy distributions (0)
- check energy distributions
 consis: shifting eprimes greater than epmax and renorming the distribution
128. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (39): ACER/check energy distributions (0)
- check energy distributions
 consis: ep.gt.epmax 1.902736E+01 with q.lt.0 for (n,x) at e 2.000000E+01 -> 1.927546E+01
129. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (40): ACER/check energy distributions (0)
- check energy distributions
 consis: awr.lt.180---this is probably an error.
130. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (41): ACER/check energy distributions (0)
- check energy distributions
 consis: shifting eprimes greater than epmax and renorming the distribution
131. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (42): ACER/check energy distributions (0)
- check energy distributions
 consis: ep.gt.epmax 1.902737E+01 with q.lt.0 for (n,x) at e 2.000001E+01 -> 1.926378E+01
132. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (43): ACER/check energy distributions (0)
- check energy distributions
 consis: awr.lt.180---this is probably an error.
133. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (44): ACER/check energy distributions (0)
- check energy distributions
 consis: shifting eprimes greater than epmax and renorming the distribution
134. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (45): ACER/check energy distributions (0)
- check energy distributions
 consis: ep.gt.epmax 2.093010E+01 with q.lt.0 for (n,x) at e 2.200000E+01 -> 2.121454E+01
135. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (46): ACER/check energy distributions (0)
- check energy distributions
 consis: awr.lt.180---this is probably an error.
136. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (47): ACER/check energy distributions (0)

check energy distributions
 consis: ep.gt.epmax 2.093010E+01 with q.lt.0 for (n,x) at e 2.200000E+01 -> 2.170223E+01

137. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (48): ACER/check energy distributions (0)

check energy distributions
 consis: awr.lt.180---this is probably an error.

138. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (49): ACER/check energy distributions (0)

check energy distributions
 consis: ep.gt.epmax 2.093010E+01 with q.lt.0 for (n,x) at e 2.200000E+01 -> 2.218992E+01

139. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (50): ACER/check energy distributions (0)

check energy distributions
 consis: awr.lt.180---this is probably an error.

140. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (51): ACER/check energy distributions (0)

check energy distributions
 consis: ep.gt.epmax 2.093010E+01 with q.lt.0 for (n,x) at e 2.200000E+01 -> 2.267761E+01

141. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (52): ACER/check energy distributions (0)

check energy distributions
 consis: awr.lt.180---this is probably an error.

142. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (53): ACER/check energy distributions (0)

check energy distributions
 consis: ep.gt.epmax 2.093010E+01 with q.lt.0 for (n,x) at e 2.200000E+01 -> 2.316530E+01

143. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (54): ACER/check energy distributions (0)

check energy distributions
 consis: awr.lt.180---this is probably an error.

144. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (55): ACER/check energy distributions (0)

check energy distributions
 consis: shifting eprimes greater than epmax and renorming the distribution

145. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (56): ACER/check energy distributions (0)

check energy distributions
 consis: ep.gt.epmax 2.473557E+01 with q.lt.0 for (n,x) at e 2.600000E+01 -> 2.511606E+01

146. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (57): ACER/check energy distributions (0)
- check energy distributions
 consis: awr.lt.180---this is probably an error.
147. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (58): ACER/check energy distributions (0)
- check energy distributions
 consis: ep.gt.epmax 2.473557E+01 with q.lt.0 for (n,x) at e 2.600000E+01 -> 2.560376E+01
148. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (59): ACER/check energy distributions (0)
- check energy distributions
 consis: awr.lt.180---this is probably an error.
149. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (60): ACER/check energy distributions (0)
- check energy distributions
 consis: ep.gt.epmax 2.473557E+01 with q.lt.0 for (n,x) at e 2.600000E+01 -> 2.609145E+01
150. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (61): ACER/check energy distributions (0)
- check energy distributions
 consis: awr.lt.180---this is probably an error.
151. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (62): ACER/check energy distributions (0)
- check energy distributions
 consis: ep.gt.epmax 2.473557E+01 with q.lt.0 for (n,x) at e 2.600000E+01 -> 2.657914E+01
152. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (63): ACER/check energy distributions (0)
- check energy distributions
 consis: awr.lt.180---this is probably an error.
153. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (64): ACER/check energy distributions (0)
- check energy distributions
 consis: ep.gt.epmax 2.473557E+01 with q.lt.0 for (n,x) at e 2.600000E+01 -> 2.706683E+01
154. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (65): ACER/check energy distributions (0)
- check energy distributions
 consis: awr.lt.180---this is probably an error.
155. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (66): ACER/check energy distributions (0)

check energy distributions
 consis: shifting eprimes greater than epmax and renorming the distribution

156. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (67): ACER/check energy distributions (0)

check energy distributions
 consis: ep.gt.epmax 2.854104E+01 with q.lt.0 for (n,x) at e 3.000000E+01 -> 2.901759E+01

157. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (68): ACER/check energy distributions (0)

check energy distributions
 consis: awr.lt.180---this is probably an error.

158. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (69): ACER/check energy distributions (0)

check energy distributions
 consis: ep.gt.epmax 2.854104E+01 with q.lt.0 for (n,x) at e 3.000000E+01 -> 2.950528E+01

159. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (70): ACER/check energy distributions (0)

check energy distributions
 consis: awr.lt.180---this is probably an error.

160. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (71): ACER/check energy distributions (0)

check energy distributions
 consis: ep.gt.epmax 2.854104E+01 with q.lt.0 for (n,x) at e 3.000000E+01 -> 2.999297E+01

161. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (72): ACER/check energy distributions (0)

check energy distributions
 consis: awr.lt.180---this is probably an error.

162. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (73): ACER/check energy distributions (0)

check energy distributions
 consis: ep.gt.epmax 2.854104E+01 with q.lt.0 for (n,x) at e 3.000000E+01 -> 3.048066E+01

163. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (74): ACER/check energy distributions (0)

check energy distributions
 consis: awr.lt.180---this is probably an error.

164. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (75): ACER/check energy distributions (0)

check energy distributions
 consis: ep.gt.epmax 2.854104E+01 with q.lt.0 for (n,x) at e 3.000000E+01 -> 3.096835E+01

165. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (76): ACER/check energy distributions (0)
- check energy distributions
 consis: awr.lt.180---this is probably an error.
166. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (77): ACER/check energy distributions (0)
- check energy distributions
 consis: shifting eprimes greater than epmax and renorming the distribution
167. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (78): ACER/check energy distributions (0)
- check energy distributions
 consis: ep.gt.epmax 3.805473E+01 with q.lt.0 for (n,x) at e 4.000000E+01 -> 3.828371E+01
168. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (79): ACER/check energy distributions (0)
- check energy distributions
 consis: awr.lt.180---this is probably an error.
169. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (80): ACER/check energy distributions (0)
- check energy distributions
 consis: ep.gt.epmax 3.805473E+01 with q.lt.0 for (n,x) at e 4.000000E+01 -> 3.877140E+01
170. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (81): ACER/check energy distributions (0)
- check energy distributions
 consis: awr.lt.180---this is probably an error.
171. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (82): ACER/check energy distributions (0)
- check energy distributions
 consis: ep.gt.epmax 3.805473E+01 with q.lt.0 for (n,x) at e 4.000000E+01 -> 3.925909E+01
172. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (83): ACER/check energy distributions (0)
- check energy distributions
 consis: awr.lt.180---this is probably an error.
173. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (84): ACER/check energy distributions (0)
- check energy distributions
 consis: ep.gt.epmax 3.805473E+01 with q.lt.0 for (n,x) at e 4.000000E+01 -> 3.974678E+01
174. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (85): ACER/check energy distributions (0)

check energy distributions
 consis: awr.lt.180---this is probably an error.

175. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (86): ACER/check energy distributions (0)

check energy distributions
 consis: ep.gt.epmax 3.805473E+01 with q.lt.0 for (n,x) at e 4.000000E+01 -> 4.023448E+01

176. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (87): ACER/check energy distributions (0)

check energy distributions
 consis: awr.lt.180---this is probably an error.

177. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (88): ACER/check energy distributions (0)

check energy distributions
 consis: shifting eprimes greater than epmax and renorming the distribution

178. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (89): ACER/check energy distributions (0)

check energy distributions
 consis: ep.gt.epmax 4.756841E+01 with q.lt.0 for (n,x) at e 5.000000E+01 -> 4.803752E+01

179. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (90): ACER/check energy distributions (0)

check energy distributions
 consis: awr.lt.180---this is probably an error.

180. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (91): ACER/check energy distributions (0)

check energy distributions
 consis: ep.gt.epmax 4.756841E+01 with q.lt.0 for (n,x) at e 5.000000E+01 -> 4.852521E+01

181. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (92): ACER/check energy distributions (0)

check energy distributions
 consis: awr.lt.180---this is probably an error.

182. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (93): ACER/check energy distributions (0)

check energy distributions
 consis: ep.gt.epmax 4.756841E+01 with q.lt.0 for (n,x) at e 5.000000E+01 -> 4.901290E+01

183. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (94): ACER/check energy distributions (0)

check energy distributions
 consis: awr.lt.180---this is probably an error.

184. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (95): ACER/check energy distributions (0)
- check energy distributions
 consis: ep.gt.epmax 4.756841E+01 with q.lt.0 for (n,x) at e 5.000000E+01 -> 4.950060E+01
185. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (96): ACER/check energy distributions (0)
- check energy distributions
 consis: awr.lt.180---this is probably an error.
186. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (97): ACER/check energy distributions (0)
- check energy distributions
 consis: ep.gt.epmax 4.756841E+01 with q.lt.0 for (n,x) at e 5.000000E+01 -> 4.998828E+01
187. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (98): ACER/check energy distributions (0)
- check energy distributions
 consis: awr.lt.180---this is probably an error.
188. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (99): ACER/check energy distributions (0)
- check energy distributions
 consis: ep.gt.epmax 4.756841E+01 with q.lt.0 for (n,x) at e 5.000000E+01 -> 5.047598E+01
189. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (100): ACER/check energy distributions (0)
- check energy distributions
 consis: awr.lt.180---this is probably an error.
190. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (101): ACER/check energy distributions (0)
- check energy distributions
 consis: shifting eprimes greater than epmax and renorming the distribution
191. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (102): ACER/check energy distributions (0)
- check energy distributions
 consis: ep.gt.epmax 5.708209E+01 with q.lt.0 for (n,x) at e 6.000000E+01 -> 5.730364E+01
192. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (103): ACER/check energy distributions (0)
- check energy distributions
 consis: awr.lt.180---this is probably an error.
193. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (104): ACER/check energy distributions (0)

check energy distributions
 consis: ep.gt.epmax 5.708209E+01 with q.lt.0 for (n,x) at e 6.000000E+01 -> 5.779133E+01
 194. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (105): ACER/check energy distributions (0)

check energy distributions
 consis: awr.lt.180---this is probably an error.
 195. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (106): ACER/check energy distributions (0)

check energy distributions
 consis: ep.gt.epmax 5.708209E+01 with q.lt.0 for (n,x) at e 6.000000E+01 -> 5.827903E+01
 196. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (107): ACER/check energy distributions (0)

check energy distributions
 consis: awr.lt.180---this is probably an error.
 197. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (108): ACER/check energy distributions (0)

check energy distributions
 consis: ep.gt.epmax 5.708209E+01 with q.lt.0 for (n,x) at e 6.000000E+01 -> 5.876672E+01
 198. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (109): ACER/check energy distributions (0)

check energy distributions
 consis: awr.lt.180---this is probably an error.
 199. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (110): ACER/check energy distributions (0)

check energy distributions
 consis: ep.gt.epmax 5.708209E+01 with q.lt.0 for (n,x) at e 6.000000E+01 -> 5.925440E+01
 200. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (111): ACER/check energy distributions (0)

check energy distributions
 consis: awr.lt.180---this is probably an error.
 201. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (112): ACER/check energy distributions (0)

check energy distributions
 consis: ep.gt.epmax 5.708209E+01 with q.lt.0 for (n,x) at e 6.000000E+01 -> 5.974210E+01
 202. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (113): ACER/check energy distributions (0)

check energy distributions
 consis: awr.lt.180---this is probably an error.

203. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (114): ACER/check energy distributions (0)
- check energy distributions
 consis: shifting eprimes greater than epmax and renorming the distribution
204. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (115): ACER/check energy distributions (0)
- check energy distributions
 consis: ep.gt.epmax 6.659578E+01 with q.lt.0 for (n,x) at e 7.000000E+01 -> 6.705746E+01
205. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (116): ACER/check energy distributions (0)
- check energy distributions
 consis: awr.lt.180---this is probably an error.
206. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (117): ACER/check energy distributions (0)
- check energy distributions
 consis: ep.gt.epmax 6.659578E+01 with q.lt.0 for (n,x) at e 7.000000E+01 -> 6.754514E+01
207. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (118): ACER/check energy distributions (0)
- check energy distributions
 consis: awr.lt.180---this is probably an error.
208. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (119): ACER/check energy distributions (0)
- check energy distributions
 consis: ep.gt.epmax 6.659578E+01 with q.lt.0 for (n,x) at e 7.000000E+01 -> 6.803284E+01
209. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (120): ACER/check energy distributions (0)
- check energy distributions
 consis: awr.lt.180---this is probably an error.
210. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (121): ACER/check energy distributions (0)
- check energy distributions
 consis: ep.gt.epmax 6.659578E+01 with q.lt.0 for (n,x) at e 7.000000E+01 -> 6.852052E+01
211. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (122): ACER/check energy distributions (0)
- check energy distributions
 consis: awr.lt.180---this is probably an error.
212. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (123): ACER/check energy distributions (0)

- check energy distributions
consis: ep.gt.epmax 6.659578E+01 with q.lt.0 for (n,x) at e 7.000000E+01 -> 6.900822E+01
213. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (124): ACER/check energy distributions (0)
- check energy distributions
consis: awr.lt.180---this is probably an error.
214. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (125): ACER/check energy distributions (0)
- check energy distributions
consis: ep.gt.epmax 6.659578E+01 with q.lt.0 for (n,x) at e 7.000000E+01 -> 6.949591E+01
215. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (126): ACER/check energy distributions (0)
- check energy distributions
consis: awr.lt.180---this is probably an error.
216. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (127): ACER/check energy distributions (0)
- check energy distributions
consis: shifting eprimes greater than epmax and renorming the distribution
217. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (128): ACER/check energy distributions (0)
- check energy distributions
consis: ep.gt.epmax 7.610946E+01 with q.lt.0 for (n,x) at e 8.000000E+01 -> 7.632358E+01
218. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (129): ACER/check energy distributions (0)
- check energy distributions
consis: awr.lt.180---this is probably an error.
219. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (130): ACER/check energy distributions (0)
- check energy distributions
consis: ep.gt.epmax 7.610946E+01 with q.lt.0 for (n,x) at e 8.000000E+01 -> 7.681126E+01
220. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (131): ACER/check energy distributions (0)
- check energy distributions
consis: awr.lt.180---this is probably an error.
221. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (132): ACER/check energy distributions (0)
- check energy distributions
consis: ep.gt.epmax 7.610946E+01 with q.lt.0 for (n,x) at e 8.000000E+01 -> 7.729896E+01

222. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (133): ACER/check energy distributions (0)
- check energy distributions
 consis: awr.lt.180---this is probably an error.
223. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (134): ACER/check energy distributions (0)
- check energy distributions
 consis: ep.gt.epmax 7.610946E+01 with q.lt.0 for (n,x) at e 8.000000E+01 -> 7.778664E+01
224. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (135): ACER/check energy distributions (0)
- check energy distributions
 consis: awr.lt.180---this is probably an error.
225. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (136): ACER/check energy distributions (0)
- check energy distributions
 consis: ep.gt.epmax 7.610946E+01 with q.lt.0 for (n,x) at e 8.000000E+01 -> 7.827434E+01
226. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (137): ACER/check energy distributions (0)
- check energy distributions
 consis: awr.lt.180---this is probably an error.
227. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (138): ACER/check energy distributions (0)
- check energy distributions
 consis: ep.gt.epmax 7.610946E+01 with q.lt.0 for (n,x) at e 8.000000E+01 -> 7.876203E+01
228. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (139): ACER/check energy distributions (0)
- check energy distributions
 consis: awr.lt.180---this is probably an error.
229. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (140): ACER/check energy distributions (0)
- check energy distributions
 consis: shifting eprimes greater than epmax and renorming the distribution
230. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (141): ACER/check energy distributions (0)
- check energy distributions
 consis: ep.gt.epmax 8.562315E+01 with q.lt.0 for (n,x) at e 9.000000E+01 -> 8.607738E+01
231. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (142): ACER/check energy distributions (0)

- check energy distributions
consis: awr.lt.180---this is probably an error.
232. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (143): ACER/check energy distributions (0)
- check energy distributions
consis: ep.gt.epmax 8.562315E+01 with q.lt.0 for (n,x) at e 9.000000E+01 -> 8.656508E+01
233. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (144): ACER/check energy distributions (0)
- check energy distributions
consis: awr.lt.180---this is probably an error.
234. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (145): ACER/check energy distributions (0)
- check energy distributions
consis: ep.gt.epmax 8.562315E+01 with q.lt.0 for (n,x) at e 9.000000E+01 -> 8.705277E+01
235. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (146): ACER/check energy distributions (0)
- check energy distributions
consis: awr.lt.180---this is probably an error.
236. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (147): ACER/check energy distributions (0)
- check energy distributions
consis: ep.gt.epmax 8.562315E+01 with q.lt.0 for (n,x) at e 9.000000E+01 -> 8.754046E+01
237. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (148): ACER/check energy distributions (0)
- check energy distributions
consis: awr.lt.180---this is probably an error.
238. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (149): ACER/check energy distributions (0)
- check energy distributions
consis: ep.gt.epmax 8.562315E+01 with q.lt.0 for (n,x) at e 9.000000E+01 -> 8.802815E+01
239. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (150): ACER/check energy distributions (0)
- check energy distributions
consis: awr.lt.180---this is probably an error.
240. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (151): ACER/check energy distributions (0)
- check energy distributions
consis: ep.gt.epmax 8.562315E+01 with q.lt.0 for (n,x) at e 9.000000E+01 -> 8.851584E+01

241. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (152): ACER/check energy distributions (0)
- check energy distributions
 consis: awr.lt.180---this is probably an error.
242. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (153): ACER/check energy distributions (0)
- check energy distributions
 consis: shifting eprimes greater than epmax and renorming the distribution
243. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (154): ACER/check energy distributions (0)
- check energy distributions
 consis: ep.gt.epmax 9.513683E+01 with q.lt.0 for (n,x) at e 1.000000E+02 -> 9.534350E+01
244. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (155): ACER/check energy distributions (0)
- check energy distributions
 consis: awr.lt.180---this is probably an error.
245. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (156): ACER/check energy distributions (0)
- check energy distributions
 consis: ep.gt.epmax 9.513683E+01 with q.lt.0 for (n,x) at e 1.000000E+02 -> 9.583120E+01
246. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (157): ACER/check energy distributions (0)
- check energy distributions
 consis: awr.lt.180---this is probably an error.
247. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (158): ACER/check energy distributions (0)
- check energy distributions
 consis: ep.gt.epmax 9.513683E+01 with q.lt.0 for (n,x) at e 1.000000E+02 -> 9.631889E+01
248. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (159): ACER/check energy distributions (0)
- check energy distributions
 consis: awr.lt.180---this is probably an error.
249. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (160): ACER/check energy distributions (0)
- check energy distributions
 consis: ep.gt.epmax 9.513683E+01 with q.lt.0 for (n,x) at e 1.000000E+02 -> 9.680658E+01
250. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (161): ACER/check energy distributions (0)

- check energy distributions
consis: awr.lt.180---this is probably an error.
251. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (162): ACER/check energy distributions (0)
- check energy distributions
consis: ep.gt.epmax 9.513683E+01 with q.lt.0 for (n,x) at e 1.000000E+02 -> 9.729427E+01
252. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (163): ACER/check energy distributions (0)
- check energy distributions
consis: awr.lt.180---this is probably an error.
253. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (164): ACER/check energy distributions (0)
- check energy distributions
consis: ep.gt.epmax 9.513683E+01 with q.lt.0 for (n,x) at e 1.000000E+02 -> 9.778196E+01
254. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (165): ACER/check energy distributions (0)
- check energy distributions
consis: awr.lt.180---this is probably an error.
255. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (166): ACER/check energy distributions (0)
- check energy distributions
consis: shifting eprimes greater than epmax and renorming the distribution
256. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (167): ACER/check energy distributions (0)
- check energy distributions
consis: ep.gt.epmax 1.141641E+02 with q.lt.0 for (n,x) at e 1.200000E+02 -> 1.143634E+02
257. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (168): ACER/check energy distributions (0)
- check energy distributions
consis: awr.lt.180---this is probably an error.
258. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (169): ACER/check energy distributions (0)
- check energy distributions
consis: ep.gt.epmax 1.141641E+02 with q.lt.0 for (n,x) at e 1.200000E+02 -> 1.148511E+02
259. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (170): ACER/check energy distributions (0)
- check energy distributions
consis: awr.lt.180---this is probably an error.

260. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (171): ACER/check energy distributions (0)
- check energy distributions
 consis: ep.gt.epmax 1.141641E+02 with q.lt.0 for (n,x) at e 1.200000E+02 -> 1.153388E+02
261. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (172): ACER/check energy distributions (0)
- check energy distributions
 consis: awr.lt.180---this is probably an error.
262. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (173): ACER/check energy distributions (0)
- check energy distributions
 consis: ep.gt.epmax 1.141641E+02 with q.lt.0 for (n,x) at e 1.200000E+02 -> 1.158265E+02
263. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (174): ACER/check energy distributions (0)
- check energy distributions
 consis: awr.lt.180---this is probably an error.
264. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (175): ACER/check energy distributions (0)
- check energy distributions
 consis: ep.gt.epmax 1.141641E+02 with q.lt.0 for (n,x) at e 1.200000E+02 -> 1.163142E+02
265. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (176): ACER/check energy distributions (0)
- check energy distributions
 consis: awr.lt.180---this is probably an error.
266. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (177): ACER/check energy distributions (0)
- check energy distributions
 consis: ep.gt.epmax 1.141641E+02 with q.lt.0 for (n,x) at e 1.200000E+02 -> 1.168019E+02
267. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (178): ACER/check energy distributions (0)
- check energy distributions
 consis: awr.lt.180---this is probably an error.
268. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (179): ACER/check energy distributions (0)
- check energy distributions
 consis: shifting eprimes greater than epmax and renorming the distribution
269. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (180): ACER/check energy distributions (0)

check energy distributions
 consis: ep.gt.epmax 1.331915E+02 with q.lt.0 for (n,x) at e 1.400000E+02 -> 1.333834E+02
 270. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (181): ACER/check energy distributions (0)

check energy distributions
 consis: awr.lt.180---this is probably an error.
 271. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (182): ACER/check energy distributions (0)

check energy distributions
 consis: ep.gt.epmax 1.331915E+02 with q.lt.0 for (n,x) at e 1.400000E+02 -> 1.338711E+02
 272. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (183): ACER/check energy distributions (0)

check energy distributions
 consis: awr.lt.180---this is probably an error.
 273. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (184): ACER/check energy distributions (0)

check energy distributions
 consis: ep.gt.epmax 1.331915E+02 with q.lt.0 for (n,x) at e 1.400000E+02 -> 1.343588E+02
 274. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (185): ACER/check energy distributions (0)

check energy distributions
 consis: awr.lt.180---this is probably an error.
 275. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (186): ACER/check energy distributions (0)

check energy distributions
 consis: ep.gt.epmax 1.331915E+02 with q.lt.0 for (n,x) at e 1.400000E+02 -> 1.348464E+02
 276. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (187): ACER/check energy distributions (0)

check energy distributions
 consis: awr.lt.180---this is probably an error.
 277. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (188): ACER/check energy distributions (0)

check energy distributions
 consis: ep.gt.epmax 1.331915E+02 with q.lt.0 for (n,x) at e 1.400000E+02 -> 1.353341E+02
 278. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (189): ACER/check energy distributions (0)

check energy distributions
 consis: awr.lt.180---this is probably an error.

279. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (190): ACER/check energy distributions (0)
- check energy distributions
 consis: ep.gt.epmax 1.331915E+02 with q.lt.0 for (n,x) at e 1.400000E+02 -> 1.358218E+02
280. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (191): ACER/check energy distributions (0)
- check energy distributions
 consis: awr.lt.180---this is probably an error.
281. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (192): ACER/check energy distributions (0)
- check energy distributions
 consis: shifting eprimes greater than epmax and renorming the distribution
282. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (193): ACER/check energy distributions (0)
- check energy distributions
 consis: ep.gt.epmax 1.522188E+02 with q.lt.0 for (n,x) at e 1.600000E+02 -> 1.524033E+02
283. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (194): ACER/check energy distributions (0)
- check energy distributions
 consis: awr.lt.180---this is probably an error.
284. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (195): ACER/check energy distributions (0)
- check energy distributions
 consis: ep.gt.epmax 1.522188E+02 with q.lt.0 for (n,x) at e 1.600000E+02 -> 1.528910E+02
285. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (196): ACER/check energy distributions (0)
- check energy distributions
 consis: awr.lt.180---this is probably an error.
286. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (197): ACER/check energy distributions (0)
- check energy distributions
 consis: ep.gt.epmax 1.522188E+02 with q.lt.0 for (n,x) at e 1.600000E+02 -> 1.533787E+02
287. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (198): ACER/check energy distributions (0)
- check energy distributions
 consis: awr.lt.180---this is probably an error.
288. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (199): ACER/check energy distributions (0)

check energy distributions
 consis: ep.gt.epmax 1.522188E+02 with q.lt.0 for (n,x) at e 1.600000E+02 -> 1.538664E+02
 289. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (200): ACER/check energy distributions (0)

check energy distributions
 consis: awr.lt.180---this is probably an error.
 290. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (201): ACER/check energy distributions (0)

check energy distributions
 consis: ep.gt.epmax 1.522188E+02 with q.lt.0 for (n,x) at e 1.600000E+02 -> 1.543541E+02
 291. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (202): ACER/check energy distributions (0)

check energy distributions
 consis: awr.lt.180---this is probably an error.
 292. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (203): ACER/check energy distributions (0)

check energy distributions
 consis: ep.gt.epmax 1.522188E+02 with q.lt.0 for (n,x) at e 1.600000E+02 -> 1.548418E+02
 293. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (204): ACER/check energy distributions (0)

check energy distributions
 consis: awr.lt.180---this is probably an error.
 294. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (205): ACER/check energy distributions (0)

check energy distributions
 consis: shifting eprimes greater than epmax and renorming the distribution
 295. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (206): ACER/check energy distributions (0)

check energy distributions
 consis: ep.gt.epmax 1.902736E+02 with q.lt.0 for (n,x) at e 2.000000E+02 -> 1.904432E+02
 296. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (207): ACER/check energy distributions (0)

check energy distributions
 consis: awr.lt.180---this is probably an error.
 297. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (208): ACER/check energy distributions (0)

check energy distributions
 consis: ep.gt.epmax 1.902736E+02 with q.lt.0 for (n,x) at e 2.000000E+02 -> 1.909309E+02

298. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (209): ACER/check energy distributions (0)
- check energy distributions
 consis: awr.lt.180---this is probably an error.
299. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (210): ACER/check energy distributions (0)
- check energy distributions
 consis: ep.gt.epmax 1.902736E+02 with q.lt.0 for (n,x) at e 2.000000E+02 -> 1.914185E+02
300. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (211): ACER/check energy distributions (0)
- check energy distributions
 consis: awr.lt.180---this is probably an error.
301. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (212): ACER/check energy distributions (0)
- check energy distributions
 consis: ep.gt.epmax 1.902736E+02 with q.lt.0 for (n,x) at e 2.000000E+02 -> 1.919063E+02
302. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (213): ACER/check energy distributions (0)
- check energy distributions
 consis: awr.lt.180---this is probably an error.
303. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (214): ACER/check energy distributions (0)
- check energy distributions
 consis: ep.gt.epmax 1.902736E+02 with q.lt.0 for (n,x) at e 2.000000E+02 -> 1.923939E+02
304. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (215): ACER/check energy distributions (0)
- check energy distributions
 consis: awr.lt.180---this is probably an error.
305. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (216): ACER/check energy distributions (0)
- check energy distributions
 consis: ep.gt.epmax 1.902736E+02 with q.lt.0 for (n,x) at e 2.000000E+02 -> 1.928816E+02
306. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (217): ACER/check energy distributions (0)
- check energy distributions
 consis: awr.lt.180---this is probably an error.
307. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (218): ACER/check energy distributions (0)

check energy distributions
 consis: shifting eprimes greater than epmax and renorming the distribution

308. Generic warning message
errorr...produce cross section covariances (0): Warning

---message from betset---p=0 set to 1 at eres= 5.6990E+05

309. Generic warning message
errorr...produce cross section covariances (1): Warning

---message from betset---p=0 set to 1 at eres= 5.7693E+05

310. Coefficient mismatch of some sort
covr...process covariance data (1): COVR/matshd (2)

---message from matshd---processing of mat/mt 2025/ 1 vs. mat1/mt1 2025/ 1
 largest coefficient= -1.23440E+02 at index 309 379

311. The number of coefficients was too large in a covariance
covr...process covariance data (2): Cov:Too many coeff.

---message from matshd---**** coefficients > 1
 reset and continue.

312. The number of coefficients was too large in a covariance
covr...process covariance data (3): Cov:Too many coeff.

---message from matshd---**** coefficients > 2
 reset and continue

313. Coefficient mismatch of some sort
covr...process covariance data (4): COVR/matshd (2)

---message from matshd---processing of mat/mt 2025/ 1 vs. mat1/mt1 2025/ 2
 largest coefficient= -3.29789E+06 at index 379 449

314. The number of coefficients was too large in a covariance
covr...process covariance data (5): Cov:Too many coeff.

---message from matshd---**** coefficients > 1
 reset and continue.

315. The number of coefficients was too large in a covariance
covr...process covariance data (6): Cov:Too many coeff.

---message from matshd---**** coefficients > 2
 reset and continue

316. Coefficient mismatch of some sort
covr...process covariance data (7): COVR/matshd (2)

---message from matshd---processing of mat/mt 2025/ 1 vs. mat1/mt1 2025/102
 largest coefficient= 4.53780E+10 at index 379 449

317. The number of coefficients was too large in a covariance
covr...process covariance data (8): Cov:Too many coeff.

---message from matshd---**** coefficients > 1
 reset and continue.

318. The number of coefficients was too large in a covariance
covr...process covariance data (9): Cov:Too many coeff.

---message from matshd---**** coefficients > 2
 reset and continue

319. Coefficient mismatch of some sort
covr...process covariance data (10): COVR/matshd (2)

---message from matshd---processing of mat/mt 2025/ 1 vs. mat1/mt1 2025/600
 largest coefficient= 3.49869E+01 at index 448 422

320. The number of coefficients is too big.
covr...process covariance data (11): COVR/matshd (3)

---message from matshd--- 4 coefficients > 1
 reset and continue.

321. The number of coefficients is too big.
covr...process covariance data (12): COVR/matshd (3)

---message from matshd--- 10 coefficients > 2
 reset and continue

322. Coefficient mismatch of some sort
covr...process covariance data (13): COVR/matshd (2)

---message from matshd---processing of mat/mt 2025/ 1 vs. mat1/mt1 2025/800
 largest coefficient= 2.28775E+05 at index 421 449

323. The number of coefficients was too large in a covariance
covr...process covariance data (14): Cov:Too many coeff.

---message from matshd---**** coefficients > 1
 reset and continue.

324. The number of coefficients was too large in a covariance
covr...process covariance data (15): Cov:Too many coeff.

---message from matshd---**** coefficients > 2
 reset and continue

325. Coefficient mismatch of some sort
covr...process covariance data (16): COVR/matshd (2)

---message from matshd---processing of mat/mt 2025/ 2 vs. mat1/mt1 2025/ 2
 largest coefficient= 1.85121E+02 at index 255 372

326. The number of coefficients was too large in a covariance
covr...process covariance data (17): Cov:Too many coeff.

```

---message from matshd---**** coefficients > 1
      reset and continue.
327. The number of coefficients was too large in a covariance
      covr...process covariance data (18): Cov:Too many coeff.

---message from matshd---**** coefficients > 2
      reset and continue
328. Coefficient mismatch of some sort
      covr...process covariance data (19): COVR/matshd (2)

---message from matshd---processing of mat/mt 2025/ 2 vs. mat1/mt1 2025/102
      largest coefficient= -2.79649E+08 at index 12 440
329. The number of coefficients was too large in a covariance
      covr...process covariance data (20): Cov:Too many coeff.

---message from matshd---7741 coefficients > 1
      reset and continue.
330. The number of coefficients was too large in a covariance
      covr...process covariance data (21): Cov:Too many coeff.

---message from matshd---**** coefficients > 2
      reset and continue
331. Coefficient mismatch of some sort
      covr...process covariance data (22): COVR/matshd (2)

---message from matshd---processing of mat/mt 2025/ 2 vs. mat1/mt1 2025/800
      largest coefficient= -2.87904E+05 at index 12 371
332. The number of coefficients was too large in a covariance
      covr...process covariance data (23): Cov:Too many coeff.

---message from matshd---**** coefficients > 1
      reset and continue.
333. The number of coefficients was too large in a covariance
      covr...process covariance data (24): Cov:Too many coeff.

---message from matshd---**** coefficients > 2
      reset and continue
334. Coefficient mismatch of some sort
      covr...process covariance data (25): COVR/matshd (2)

---message from matshd---processing of mat/mt 2025/102 vs. mat1/mt1 2025/102
      largest coefficient= 1.06883E+02 at index 358 387
335. The number of coefficients was too large in a covariance
      covr...process covariance data (26): Cov:Too many coeff.

---message from matshd---**** coefficients > 1
      reset and continue.

```

336. The number of coefficients was too large in a covariance
covr...process covariance data (27): Cov:Too many coeff.

```

---message from matshd---**** coefficients > 2
                        reset and continue

```

337. Coefficient mismatch of some sort
covr...process covariance data (28): COVR/matshd (2)

```

---message from matshd---processing of mat/mt 2025/102 vs. mat1/mt1 2025/800
                        largest coefficient= 6.72917E+06 at index 449 358

```

338. The number of coefficients was too large in a covariance
covr...process covariance data (29): Cov:Too many coeff.

```

---message from matshd---**** coefficients > 1
                        reset and continue.

```

339. The number of coefficients was too large in a covariance
covr...process covariance data (30): Cov:Too many coeff.

```

---message from matshd---**** coefficients > 2
                        reset and continue

```

340. Coefficient mismatch of some sort
covr...process covariance data (31): COVR/matshd (2)

```

---message from matshd---processing of mat/mt 2025/800 vs. mat1/mt1 2025/800
                        largest coefficient= 1.82250E+02 at index 336 358

```

341. The number of coefficients was too large in a covariance
covr...process covariance data (32): Cov:Too many coeff.

```

---message from matshd---**** coefficients > 1
                        reset and continue.

```

342. The number of coefficients was too large in a covariance
covr...process covariance data (33): Cov:Too many coeff.

```

---message from matshd---8654 coefficients > 2
                        reset and continue

```

- **acelst** Warnings:

1. The incident energy grid is not monotonic for this angular distribution
0: Bad Ang. Dist.

```

ACELST WARNING - Processing Ang.Dist.MT          2
                  E-grid non-monotonic  1.000000000E-11 1.000000000E-11

```

- **xsectplotter** Warnings:

1. A covariance format not yet supported by fudge (LRF=7 covariances)
(Error # 2): Cov. unimp. (e)

WARNING: skipping LRF=7 resonance covariances!

2. Encountered runtime warning in xsectplotter or Fudge or matplotlib
(Error # 3): *RuntimeWarning*

`/opt/local/Library/Frameworks/Python.framework/Versions/2.7/lib/python2.7/site-packages/matplotlib/pyplot.py:524`

3. Encountered runtime warning in xsectplotter or Fudge or matplotlib
`/opt/local/Library/Frameworks/Python.framework/Versions/2.7/lib/python2.7/site-packages/matplotlib/pyplot.py:524`
RuntimeWarning: More than 20 figures have been opened. Figures created through the pyplot interface ('matplotlib.pyplot.figure') are retained until explicitly closed and may consume too much memory. (To control this warning, see the rcParam 'figure.max_open_warning').
(Error # 0): *RuntimeWarning*

`max_open_warning, RuntimeWarning)`